



THE AGENDA

7 May, 0900-1600

Discussion	Office/POC	
Prototype Overview	LTC Layer	
Equipment Update	LTC Layer	
SMART Technology	Sue Durham	
PAX Movement Update	LTC Layer	
Move Synchronization	LTC Layer	

8 May. 0900-1600

Discussion	Office/POC	
CMOS	CMOS/TBD	
Evaluation Plan	LTC Layer	
Movement Schdule	LTC Layer	





Joint Vision 2010 Operational Concepts

INFORMATION SUPERIORITY
TECHNOLOGICAL
INNOVATION

DOMINANT MANEUVER
PRECISION ENGAGEMENT

Joint Forces
Coalition Partners

FOCUSED LOGISTICS
FULL-DIMENSIONAL PROTECTION

FULL SPECTRUM DOMINANCE

Advanced Technologies



New Operational Concepts and Doctrine

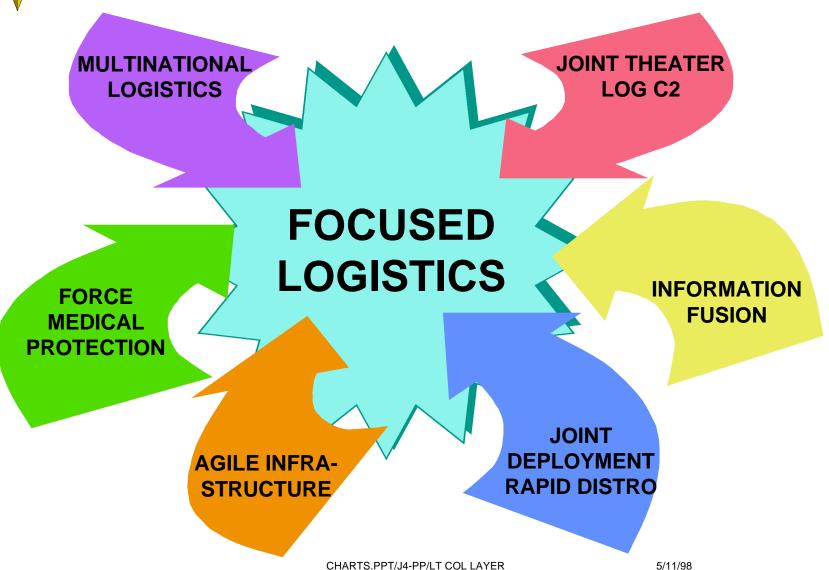


Organizational Change





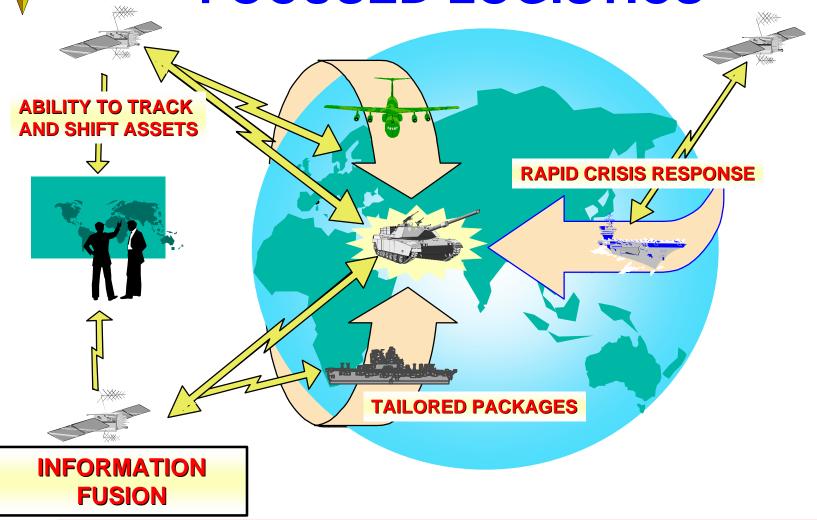
JOINT VISION 2010 CINC/JTF REQUIREMENTS







JOINT VISION 2010 "FOCUSED LOGISTICS"

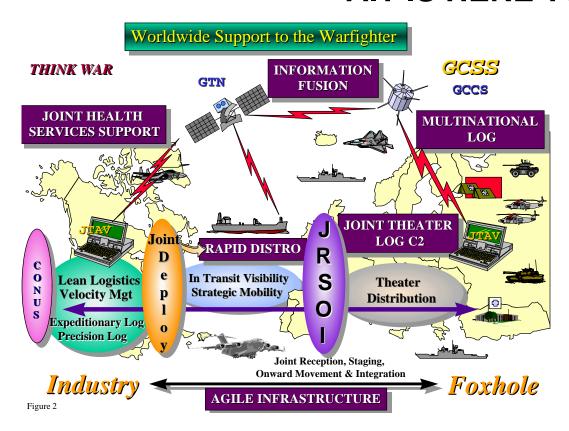






DEVELOPING THE INFRASTRUCTURE

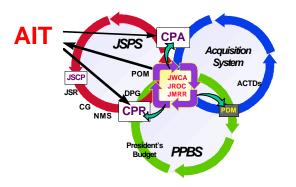
AIT IS HERE TO STAY



INCORPORATE AIT INTO DOCTRINE, TACTICS
TECHNIQUES AND PROCEDURES



TEACH AIT IN THE SCHOOLHOUSES



INCLUDE AIT IN DPG
AND POM PROCESSES



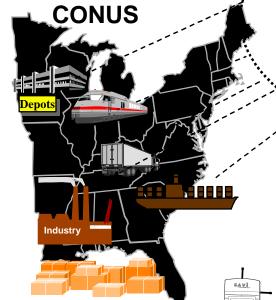
BEYOND THE THEATER

MUST HAVE DOD AIT FOCAL POINT

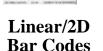
WORLDWIDE AIT COMPATIBILITY

STANDARD AIT BUSINESS PROCESSES

WORLDWIDE FREQUENCY
APPROVALS







Radio

Frequency

ID



Optical Memory Card



MARC/SMART Cards

DTRACS Satellite Tracking





THEATER



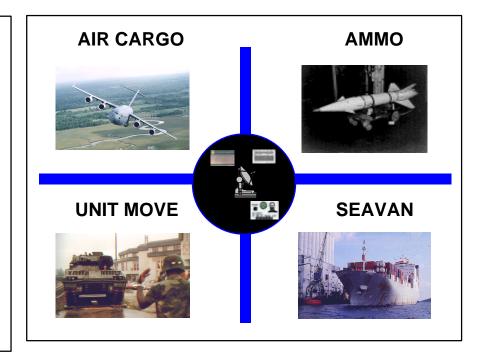
DOD AIT OPERATIONAL PROTOTYPE

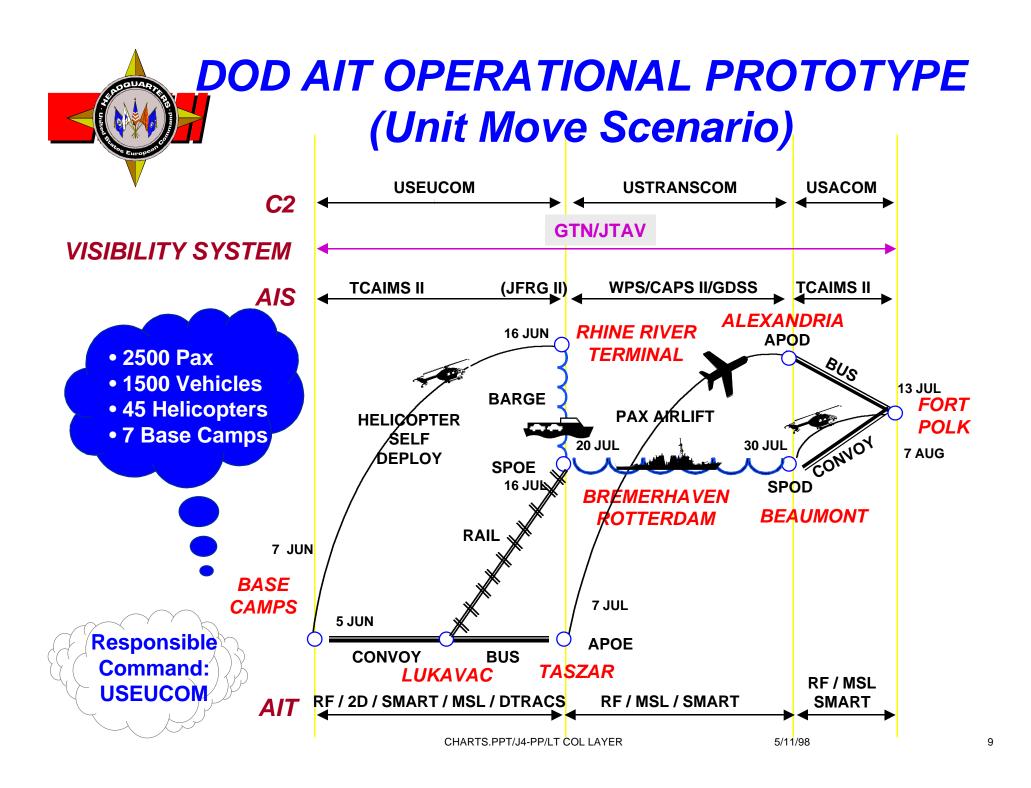
DLA IS EXECUTIVE AGENT

OBJECTIVES

Universal Applicability
Most Effective/Efficient AIT
Flyaway Kit Composition and Distribution
AIT/AIS Integration
Data Broadcast Timeliness
Flexibility in the Operational Environment
Identify/Validate CONOPS Funding
Identify Security Issues
Force Structure Issues and Training Impacts
Validation of Data Requirements
Data Applicability for JDST

SCENARIOS





UNCLASSIFIED



EQUIPMENT UPDATE

30 - HP LASERJET (missent to Belgium SSA. Will be direct shipped to Tuzla)



20 - INTERMEC
PRINTER
CABLES
(shipped from vendor
EDD 6 May)

30 - INTERMEC PRINTER
2 ROLLS OF LABELS
2 RIBBONS
(shipped from Susquehanna &





15 - RF TAĞ
DOCKING
STATIONS
(In Europe, Customs,
ETD: F'feld 8 May)



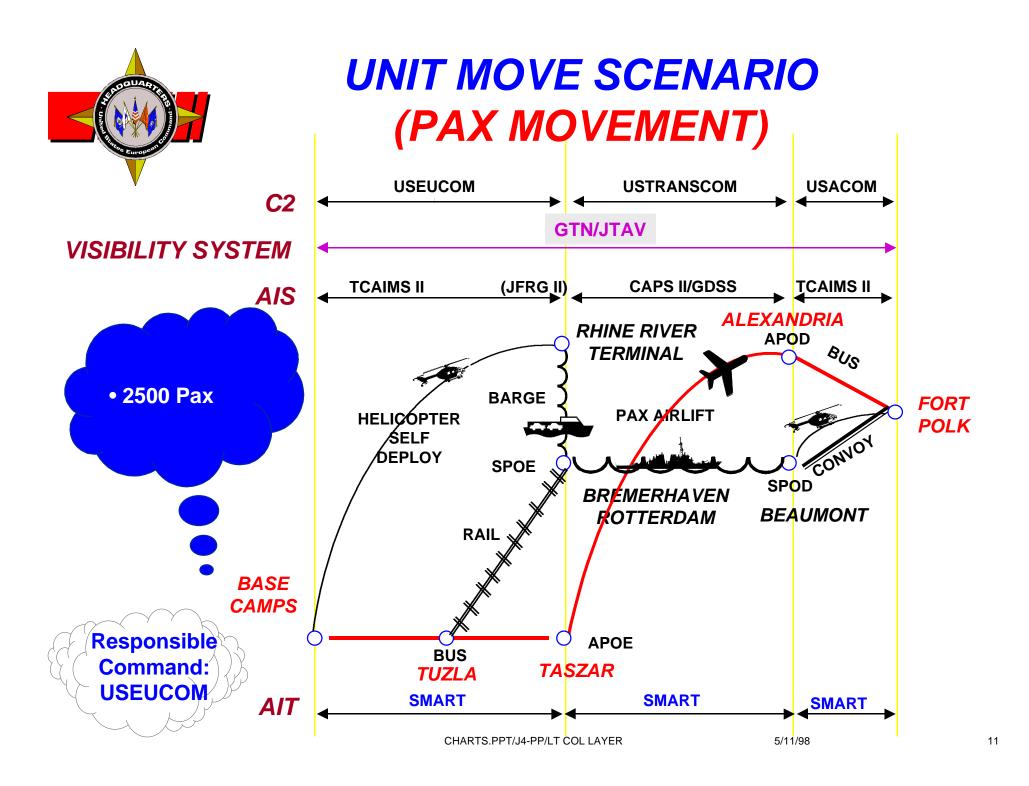
(On hand; being distributed throughout Bosnia & Central Region)



200 RF TAGS (In Bosnia)



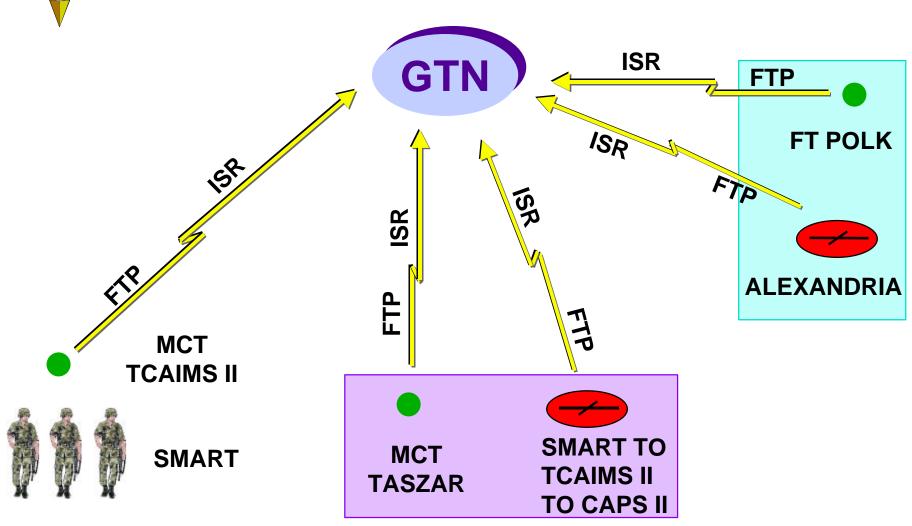
2D SCANNER
INTERMEC JANUS 20/20
"BRICK AND A STICK"
15 EACH
(shipped from Intermec)

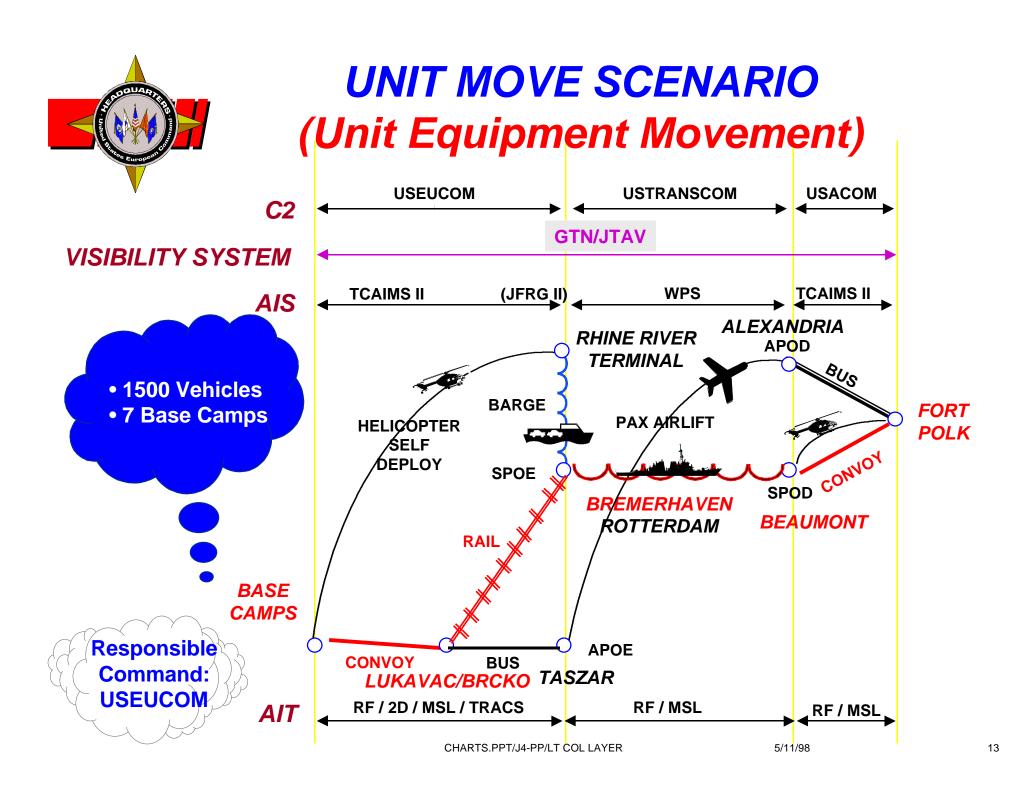


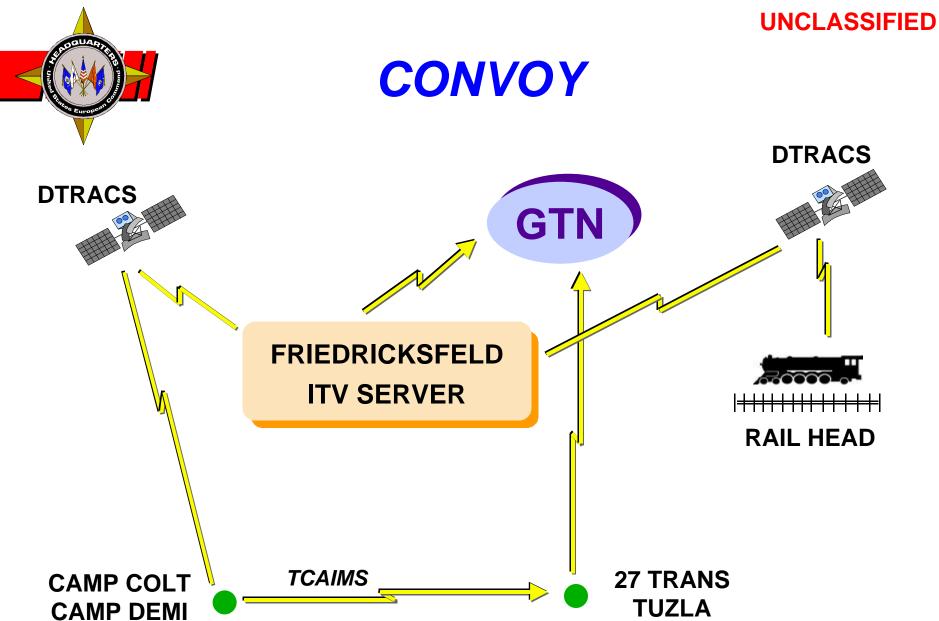




PAX MANIFESTING







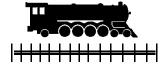
UNCLASSIFIED



RAIL

GTN

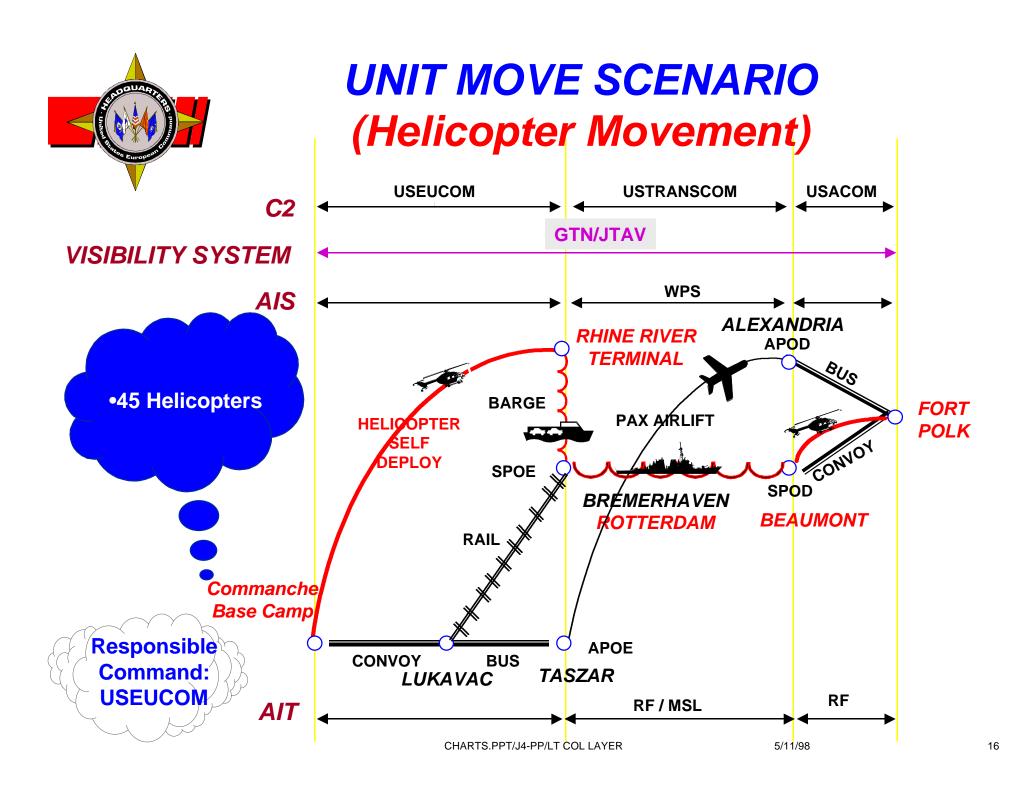
TCAIMSISR



LUCAVAC MCT (SCAN ON) TCAMS II ISR



BREMERHAVEN MCT (SCAN OFF?)







AMMO SCENARIO/ FLY-AWAY KIT UPDATE

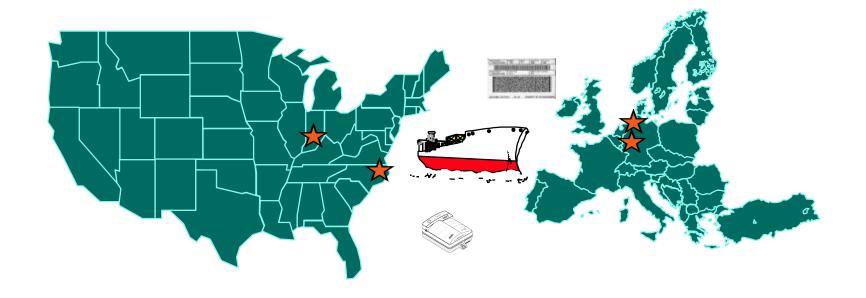
Lt Col Carl Puntureri HQ USEUCOM/ECJ4-PPP 430-8054





AMMO SCENARIO

LEAD AGENCY: ARMY CRANE DEPOT - SUNNY POINT - NORDENHAM -MIESAU/RAMSTEIN - ASPs





AMMO SCENARIO UPDATE

- RAMSTEIN IN, NAVEUR OUT
- NO PROJECTED SHIPMENT THIS FY
- TEST RUN IN AUGUST
- ACTUAL TEST ????



FLY-AWAY KIT UPDATE

- SLIGHT MODIFICATIONS TO KIT COMPOSITION
- CONCEPT TO BE TESTED DURING UNIT MOVE SCENARIO (LUKAVAC/BRCKO)
- EXPANDED TEST TO INCLUDE HURLBURT/ BRINDISI
- USAREUR EXECUTIVE AGENT FOR PROCUREMENT/MAINTENANCE DURING TEST PERIOD

DOD Logistics Automatic Identification Technology PROOF OF CONOPS

AIR CARGO SCENARIOS UPDATE

THE AIR PROTOTYPE TEAM

- USTRANSCOM lead agent
 - -- USEUCOM / USAFE
 - -- Air Mobility Command
 - -- NAVSUP

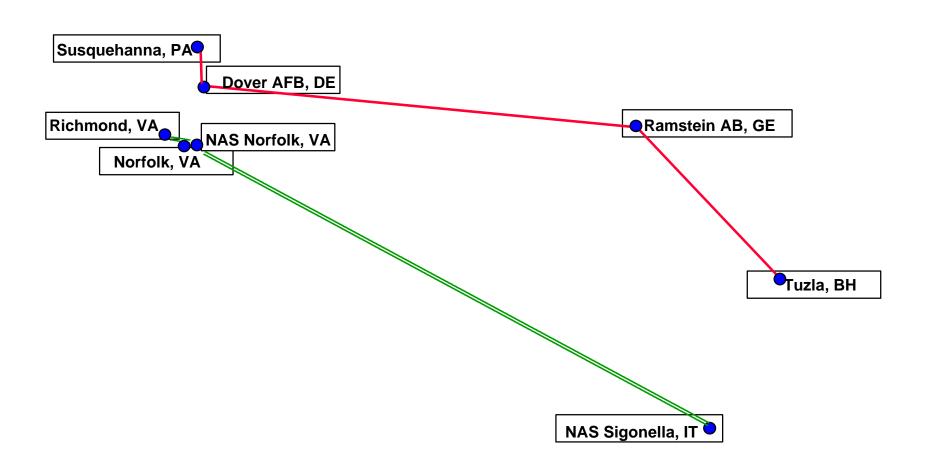
OBJECTIVES & GOALS

- Integrate AIT with Automated Information Systems (AIS)
 - Processes and systems
 - From CONUS consolidation points to Service consignees in EUCOM
- Measure effect and cost of integrated AIT use on...
 - Node and mode processes (efficiency, accuracy)
 - Intransit and in-process visibility
 - AIS--legacy and migration
- Demonstrate advanced-technology microstamp

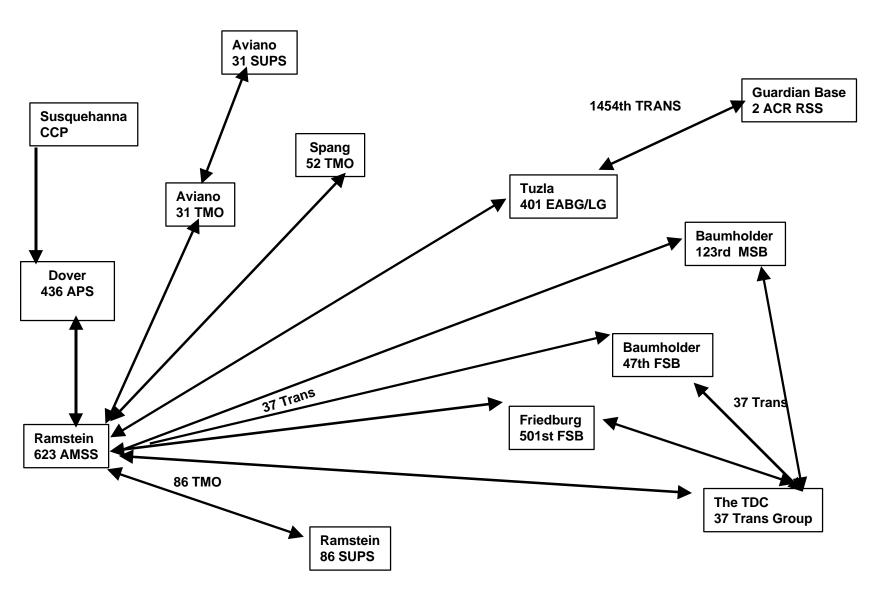
REQUIREMENTS

- AIT "front-end" applications work as planned and delivered in time.
- Personnel trained on use of new applications.
- World situation (summer '98) allows prototype.
- Radio frequency approvals in place.

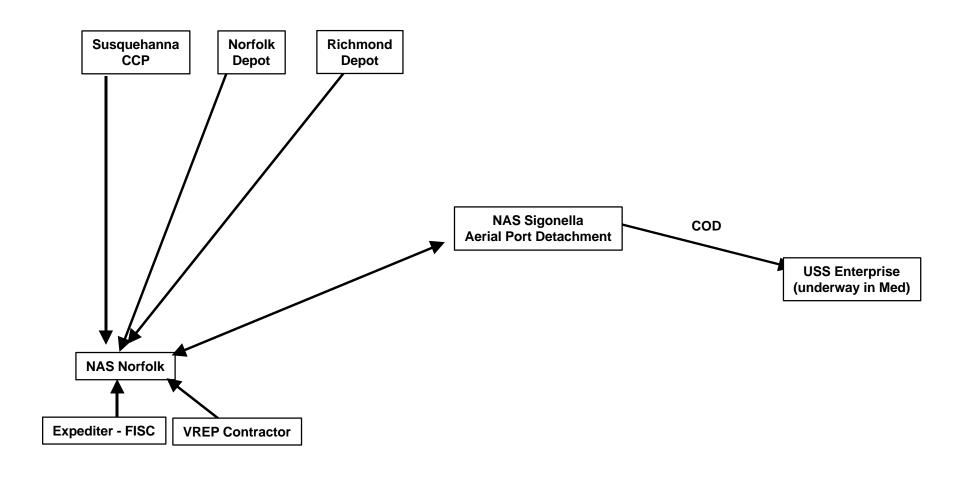
Air Scenario DLA Origins and Aerial Ports



CARGO MOVEMENT NORTHERN CHANNEL SCENARIO



CARGO MOVEMENT SOUTHERN CHANNEL SCENARIO



AIT-AIS RELATIONSHIPS TO BE MEASURED

- 1. AIT input to ITV source data systems
 - -- AIT updates/outputs for CAPS II Norfolk, Dover, Ramstein, Tuzla (DCAPS) & Sigonella
 - -- AIT updates to R-Supply (Navy on-board supply system)
 - -- AIT updates/outputs in SARSS-O and SATS (Army & AF supply systems)
- 2. 2D barcode generation in DSS at DDSP, DDNV, and DDRV
 - -- Basis for air and ocean consolidation data at transp nodes
 - -- Basis for individual item supply data

PERFORMANCE MEASURES - EFFECT OF AIT -

NODES

- Time
- Accuracy or Quality
- Personnel required
- Elimination of unnecessary work

ASSET VISIBILITY

- "Stand-off, in-the-box" visibility where no AIS
- "Stand-off, in-the-box" visibility in austere environments
- C2 effectiveness

COST-BENEFIT ANALYSIS

- 3-Year savings > AIT cost?
- Investment increases readiness and responsiveness?

DOCUMENTATION TASKS

- Time
- Accuracy
- Personnel required
- Elimination of unnecessary work?

AIS UPDATES

- Time
- Accuracy
- Elimination of unnecessary work?

CUSTOMER INQUIRIES

- Reduce personnel involved?
- Decrease time expended?

NEXT STEPS

- Complete technical site visits
- Field SATS & RF-CMOS at AF Base Supply & TMO sites
- Complete business process server development (LOGICON)
- Complete "As-Is" (baseline) measures at all nodes
- Complete Navy on-board system development (USS Enterprise)
- Perform "To-Be" measures at all nodes during prototype
- Refine microstamp demonstrations plan

NODE DETAILS

SUSQUEHANNA - DSS & AMS

NOW

PROTOTYPE

CHANGE

- Linear barcodes on shipment units
- make 2D barcodes
- Change DSS to accept & 2D barcode more reliable; holds more data
- RF Tags on certain **Army ALOC pallets**
- same
- RF interrogators report to EUCOM server
- same
- OMCs on multipacks
- same

DOVER 436th APS

NOW

- RFID interrogators feed EUCOM server
- Scan TCN on items with lead TCNs
- Manually input TCMD for receipts with no advance
- Manual reconciliation of inchecked cargo
- Manually enter and print Linear Barcode for items without TCN BC and then scan

PROTOTYPE

- RF interrogators feed EUCOM server
- RFID loads ATCMD for RFtagged truck cargo when "no-hit"
- Use 2D barcode to load TCMD data when no advance ("no-hit")
- Apply RF ID tags to port-built pallets, with APOD RMS or TZL (about 10 missions needed for evaluation)

CHANGE

- Reduces "no-hits" manual input and transcription errors
- One-time input for CAPS II entry and barcode printing
- More reliable reads on 2D bar codes reduce port workload
- Slight workload increase to create RFID tags

RAMSTEIN: 623rd AMSS

NOW

- RFID interrogators feed EUCOM server
- GDSS passes RMS arrival to GTN
- CAPS to CAPS to advance air inbound message (disk back-up)
- Manual reconciliation of pallets
- Manually input TCMD for "no-hits"

PROTOTYPE

- RFID interrogators feed EUCOM server
- RFID loads ATCMD for RFtagged pallets when "no-hit"
- Use BPS to load ATCMD data for 2D barcoded items, when "no-hit"
- Affix RFID tags to RMS portbuilt pallets/C-130 reconfigured pallets with APOD TZL
- CMOS & CAPS interface
- Manually enter and print Linear barcode for items without BC (doubles as CAPS II incheck)
- Affix 2D-barcoded MSL to unlabeled outbound cargo

CHANGE

- Reduces TCMD "no hits"
- Reduces "no-hits" resultant manual input and transcription errors
- One time input for CAPS II entry and barcode printing
- More reliable reads on 2D bar codes reduce port workload
- CMOS-CAPS interface eliminates manual/disk entry of AF Trans data between systems
- Increased workload for RFID closeout, creation, & attachment

RAMSTEIN: 86 TRANS & 86 SUPS AVIANO: 31 TRANS & 31 SUPS

NOW	PROTOTYPE	CHANGE
 RFID interrogators feed EUCOM server TMO types TCN into CMOS CMOS feeds GTN TMO delivers to supply 	 RFID interrogators feed EUCOM server RFID interrogators trigger CMOS transportation receipt for RF-tagged pallets Use linear and 2D barcodes and OMC in supply receipt Use BPS to load TCMD data for 2D barcoded items, when no 	 Reduces "no-hits" resultant manual input and transcription errors Reduced personnel reqts
 Manual reconciliation of pallets and items 	 advance file Automatic reconciliation and reports of discrepancy CAPS interfaces with CMOS SATS scans 2D barcode to in check 	• Reduces TCMD "no hits"
	 SATS uses smart card to issue supplies 	More accountable issue process

SPANGDAHLEM: TMO

NOW PROTOTYPE CHANGE Reduces TCMD "no RFID interrogators feed **EUCOM** hits" Manual reconciliation server and load TCMD for RF-Reduces "no-hits" of pallets and cargo tagged cargo resultant manual input **RFID** interrogators trigger and transcription errors transportation receipt in CMOS. **Reduced personnel Automatic reports of discrepancy** regts

TUZLA: 401st EABG

NOW

- GDSS passes aircraft arrival to GTN
- CAPS to CAPS to advance air inbound message (disk backup)
- Manual reconciliation of pallets and cargo
- Manually input TCNs for non-barcoded items

PROTOTYPE

- RFID interrogators feed EUCOM server
- RFID loads ATCMD for RF-tagged pallets when "no-hit"
- Use BPS to load TCMD data for 2D barcoded items, when "no-hits"
- Scan TCN on items with lead TCNs
- Manually enter and print Linear barcode for items without BC (doubles as CAPS II incheck)
- Automatic reports of discrepancy (individual-item in-check compares to pallet total on RF tag)

- Reduces TCMD "no hits"
- Reduces "no-hits" resultant manual input and transcription errors

37 TRANS GRP (TDC)

NOW

- EUCOM ITV RF interrogators feed Friedrichsfeld server
- Load OMC into STARS to populate
- Manually enter lead TCN into STARS
- Read linear BC (when possible)
- Build multipacks
 - Create OMCs
 - Burn RF tags for vehicles going to units with interrogators

PROTOTYPE

- EUCOM ITV RF interrogators feed Friedrichsfeld server
- Use CMOS as TDC distribution system for selected DODAACs
- Continue STARS use to compare to CMOS
- RF-tagged retrograde cargo loads TCMD to CMOS
- Use 2D bar code to load ATCMD data when no advance data
- CMOS provides ATMCD for RMS-originated shipments
- Burn 2D, OMCs, and RF tags for participating DoDAACs

- Reduces TCMD "no hits"
- Reduces "no-hits" resultant manual input and transcription errors
- Outbound RFID increases visibility
- RF-CMOS eliminates manual entry of AF trans data between systems
- Increased workload for 100%
 2D, RF tags and OMC for test
 DoDAACs
- Probable increased workload to run two AIS

SSAs: 123 MSB / 47 FSB / 501 FSB / 2ACR (RSS)

NOW

- EUCOM ITV RF interrogators feed
 Friedrichsfeld server
- Load OMC into SARSS-O to populate then manually reconcile
- Weekly update of RODS or no RODS
- Read linear BC (when possible)
- Build multipacks
 - Burn OMCs for items that already have good BC
 - Burn RF tags for vehicles going to units with interrogators

PROTOTYPE

- EUCOM ITV RF interrogators feed Friedrichsfeld server
- Use 2D- and linear barcoded
 MSLs & OMCs to update SARSS
- Affix 2D- barcoded MSLs to outbound cargo
- Affix RF tags to pallets built for RMS/TZL
- RFID tag triggers TK6
- BPS assists in Reports of Discrepancy

CHANGE

 One time input for SARSS-0 and barcode printing

 RFID tag triggers TK6.
 Actual arrival time reflected by TK6 sent to LIF

DD RICHMOND AND DD NORFOLK - DSS

NOW

 Apply linear barcode to outbound inventory

PROTOTYPE

- OMCs on multipacks
- Change DSS to create and accept 2D barcode
- Apply 2D-barcoded MSL to inventory shipment units outbound to Norfolk

CHANGE

Increased workload for OMCs

NORFOLK NAVY BASE AMC TERMINAL

NOW

- Manual reconciliation of inchecked cargo
- Scan TCN on items with lead TCNs
- Manually input TCNs for non-barcoded items.
- Manually enter and print Linear Barcode for items without BC
- Manually enter TCMD when no advance on inchecked cargo

PROTOTYPE

- Automatic reconciliation of inchecked cargo
- Use 2D bar code to load TCMD data when no advance ("nohit")
- Manually enter and print Linear barcode for items without BC (doubles as CAPS II incheck)
- Use BPS to create pallet contents listing on OMC for SIZ pallets

- Reduces "no-hits" resultant manual input and transcription errors
- One time input for CAPS II and barcode printing
- More reliable reads on 2D bar codes reduce port workload

SIGONELLA NAVY BASE AMC TERMINAL

NOW

- Manually reconcile pallets
- Manually compile pallet-build data for CAPS II
- Manually input TCNs for non-barcoded items.

PROTOTYPE

- Use 2D bar code to load TCMD data when no advance ("no-hit")
- Manually enter and print Linear barcode for items without BC (doubles as CAPS II incheck)
- Use OMC as pallet contents listing to reconcile overs & shorts

- More accurate receipting
- Increased work load applying barcodes to nonbarcoded items destined for IKE
- More reliable reads on 2D bar codes reduce port workload

USS ENTERPRISE

NOW

 Linear BC scan items in inventory update process (manual entry of some data)

PROTOTYPE

- Use 2D barcodes & OMCs in supply receipt process
- Use 2D barcodes in inventory update process (all automatic)
- Automatic reconciliation of "due-in" requisitions

- Increased accuracy and speed
- Automatic reconciliation



Baseline Data Collection Schedule May

Mon	Tue	Wed	Thu	Fri	Sat	Sun
11	12	13	14	15	16	17
TDC	TDC		Benelux	Antwerp		
TDC	TDC					
18	19	20	21	22	23	24
SPANG	SPANG	C2-KIC				
123 MSB	501 FSB	47 FSB				
25	26	27	28	29	30	31
	Sigonella	Augusta		Naples		
	Aviano	Aviano				

Top Row Data (As of 4 Apr) from Mr Wells: robert_wells@sra.com / (618) 624-6660.

Second Row Data (As of 4 May) from Mr Moores: terry_moores@sra.com / (703) 227-7073.

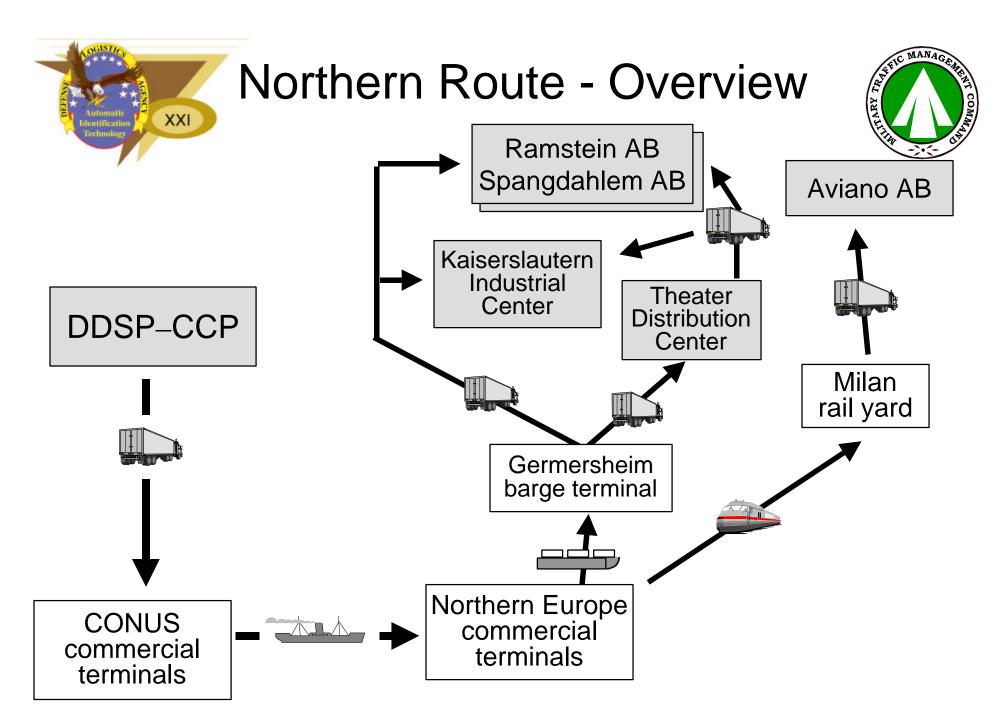




Logistics AIT Operational Prototype

Seavan Scenarios

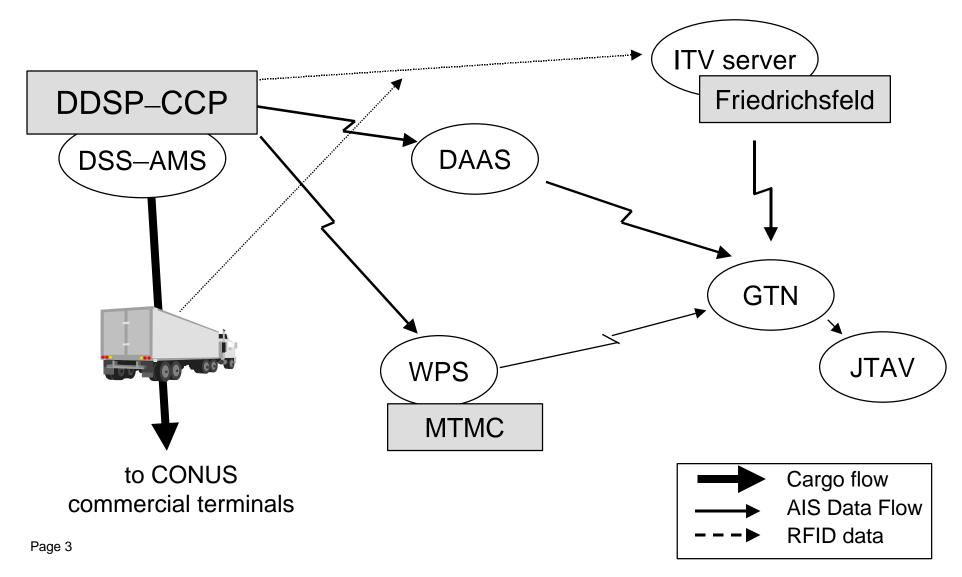






Northern Route - Origin



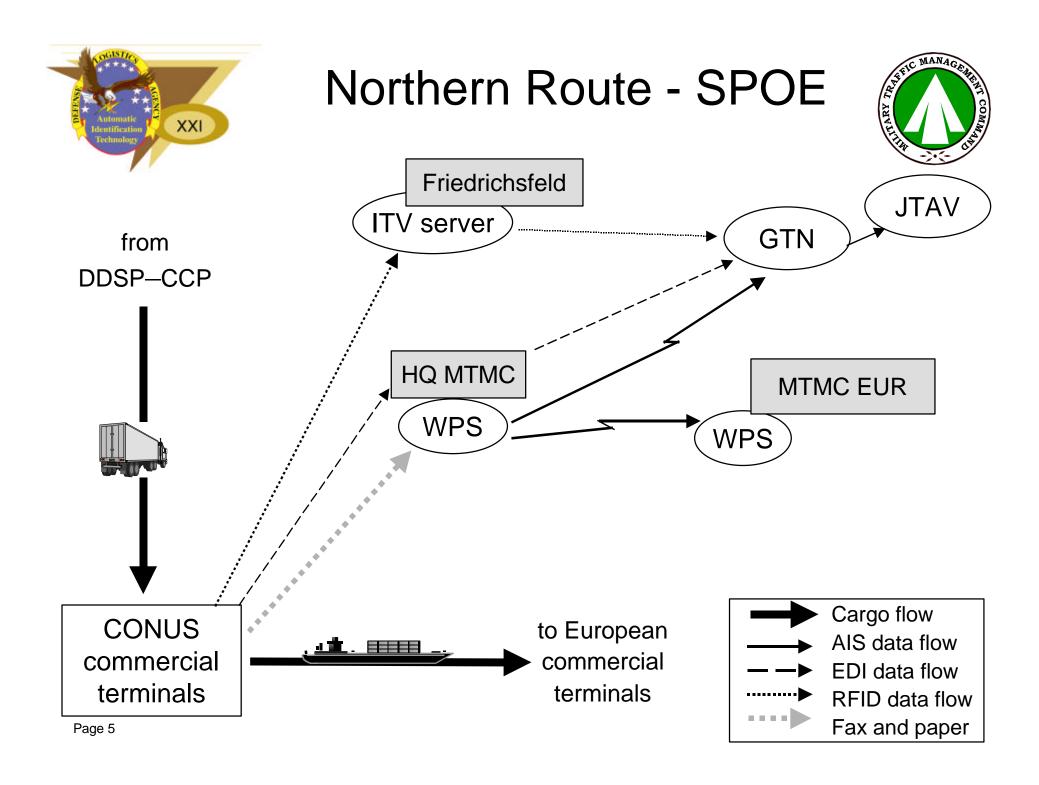




Northern Route - Origin



- Read linear/2D to consolidate seavans
- Burn global 2D, OMC, and RF tags
- AIT vs AIS-AIS broadcast upon departure

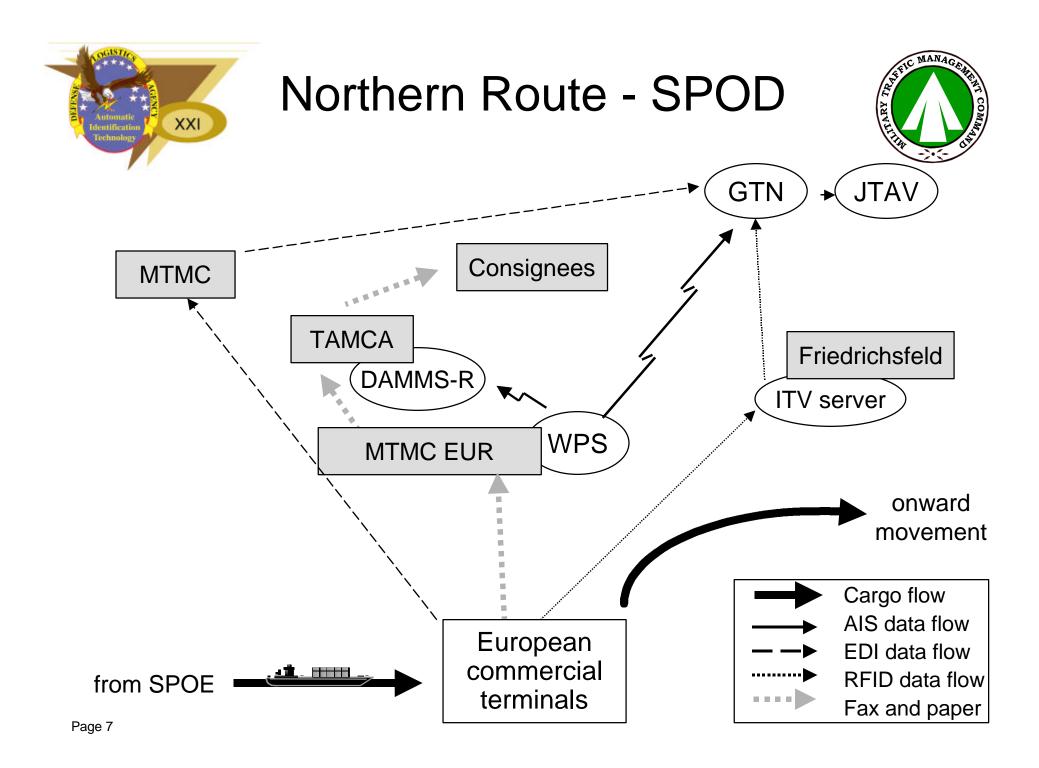




Northern Route - SPOE



- Read RF to acknowledge arrival
- Read RF to acknowledge lift
- RF vs EDI broadcast upon departure

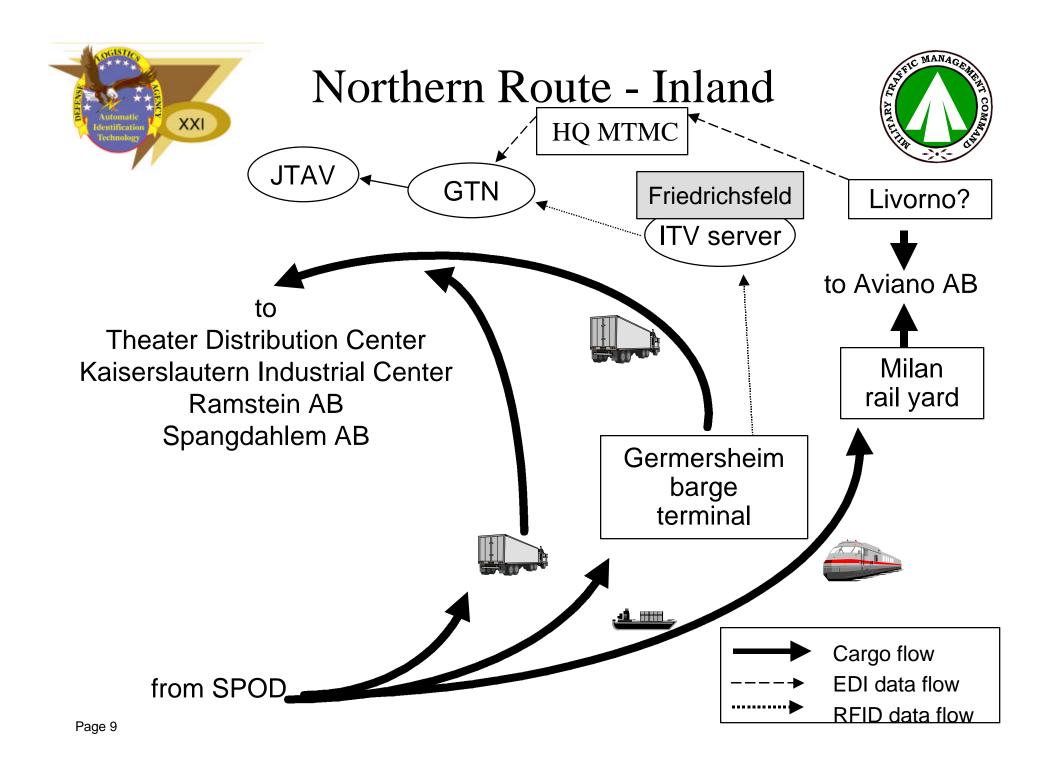




Northern Route - SPOD



- Read RF to acknowledge discharge (Antwerp only)
- Read RF to acknowledge disposition
- RF vs EDI broadcast upon departure





Northern Route - Inland

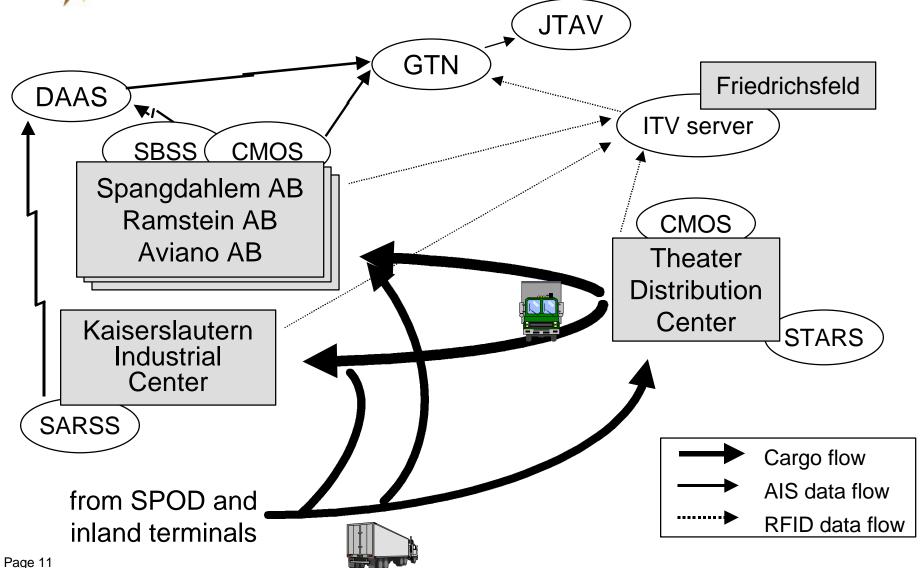


- Read RF to acknowledge disposition (at Germersheim only)
- No evaluations at Milan rail yards
- No evaluations for land movements from SPOD
- RF vs EDI broadcast upon departure (at Germersheim only)



Northern Route - Receipt & Processing







Northern Route - Receipt & Processing

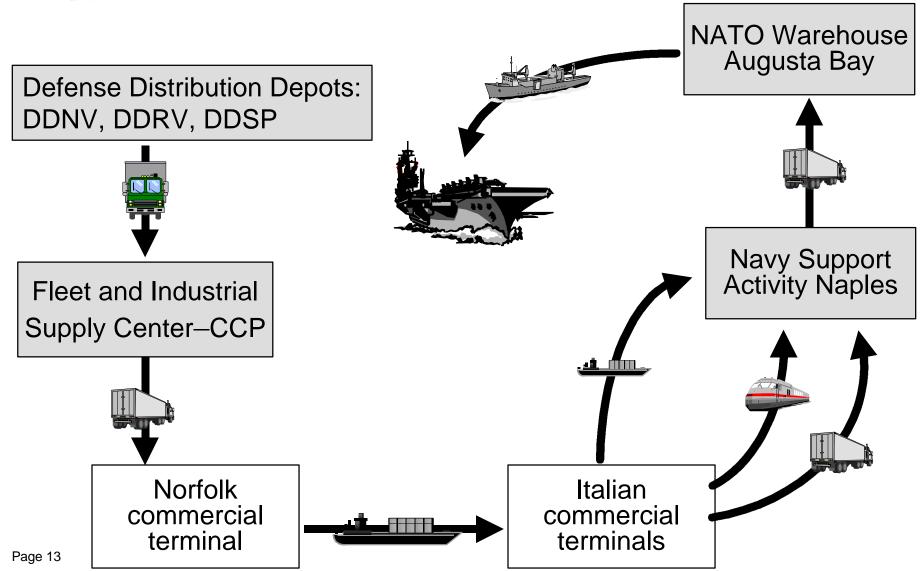


- Read RF to acknowledge arrival
- Read global 2D/OMC/RF to perform transportation in-check
- Read item/multi-pack linear/2D/OMC to receipt
- Read SMART to issue (at Ramstein and Aviano only)



Southern Route - Overview

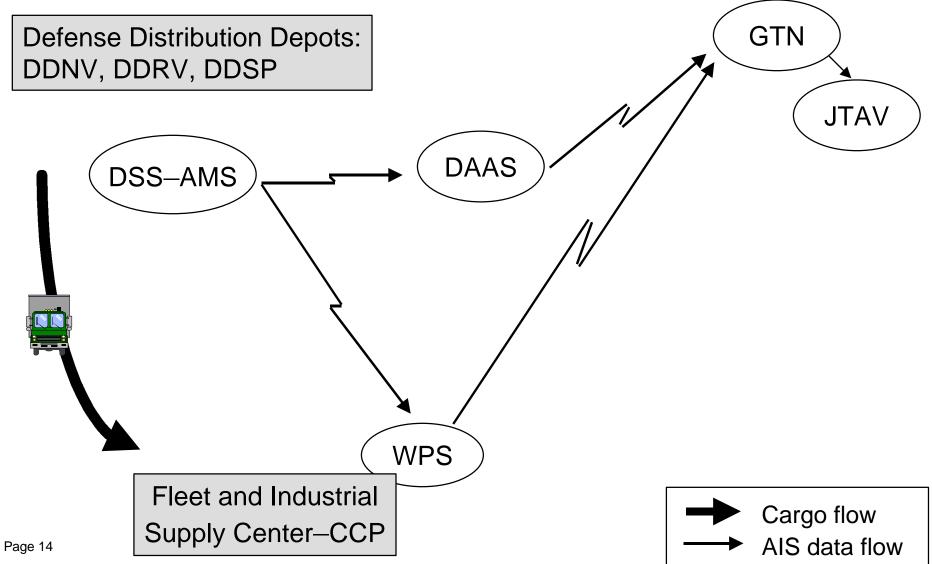






Southern Route - Origin







Southern Route - Origin

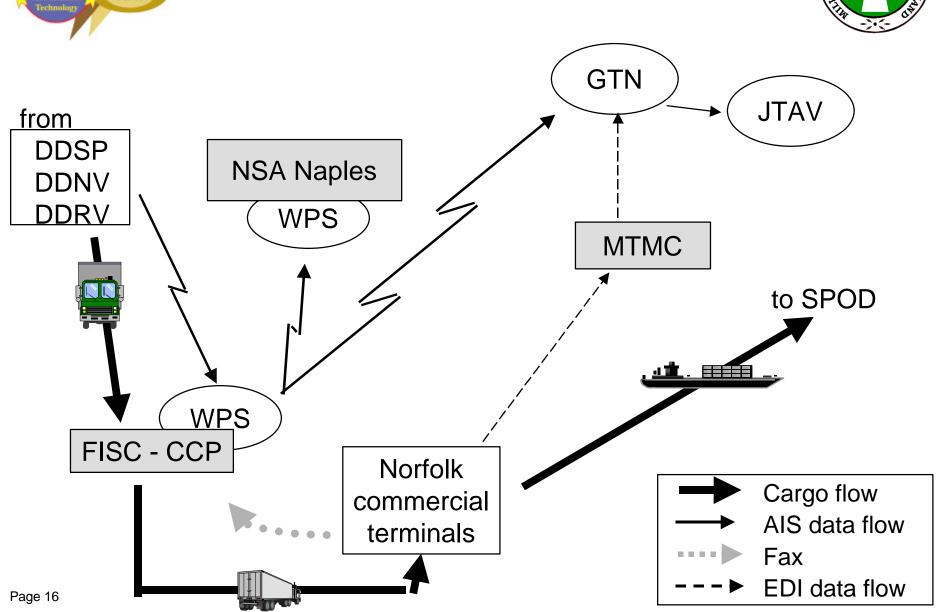


- Burn 2D for individual items (depots only)
- Burn 2D/OMC to consolidate multi-packs (depots only)
- Read linear/2D to consolidate seavans (FISC only)
- Burn global 2D/OMC for seavans (FISC only)



Southern Route - SPOE



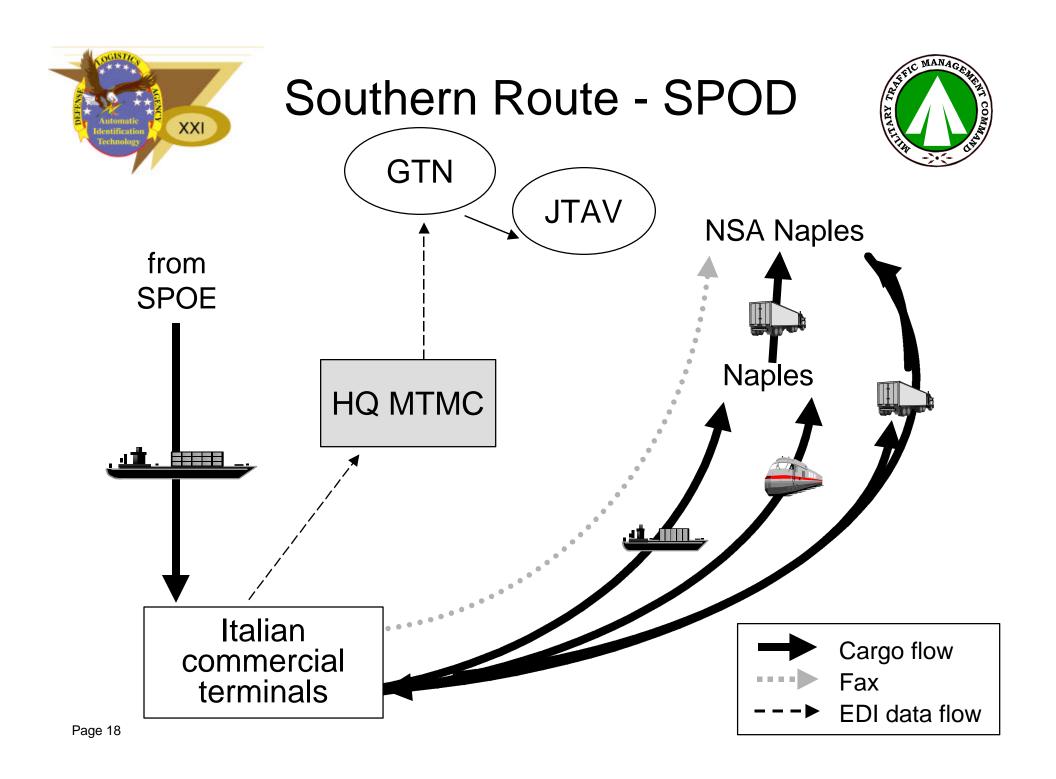




Southern Route - SPOE



EDI broadcast upon departure





Southern Route - SPOD

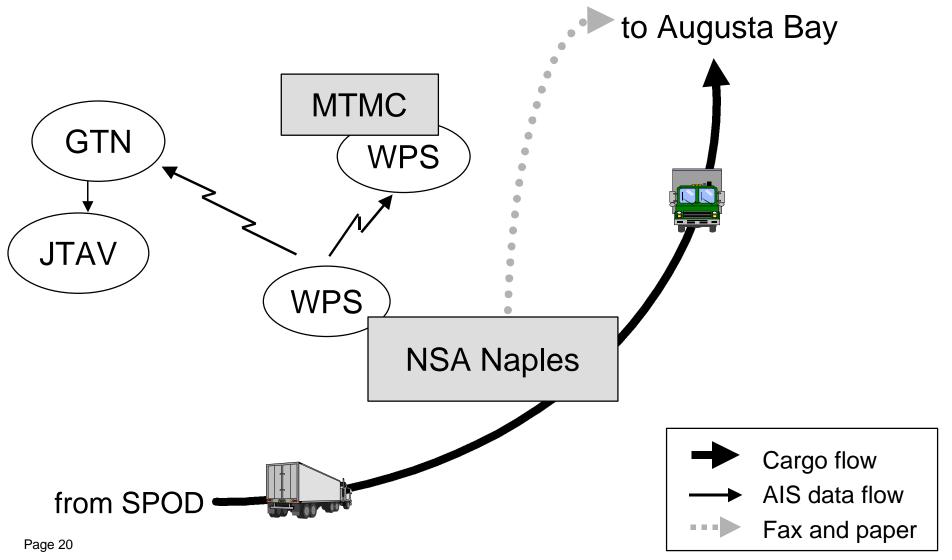


- EDI broadcast upon discharge



Southern Route - NSA Naples







Southern Route - NSA Naples

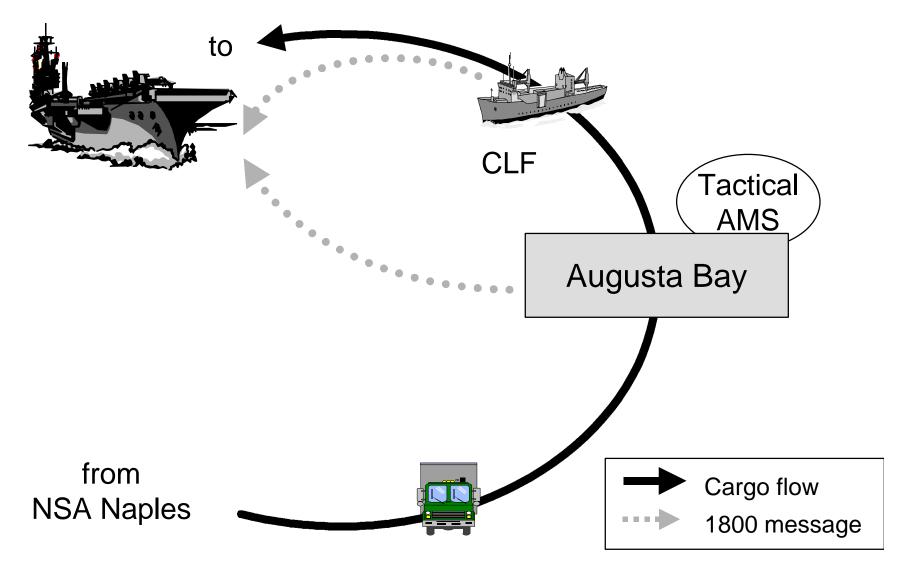


- Read global 2D/OMC to unstuff seavans and perform transportation in-check
- Read 2D/OMC to consolidate truck loads
- Read 2D/OMC to manifest truck loads



Southern Route - Augusta Bay







Southern Route - Augusta Bay

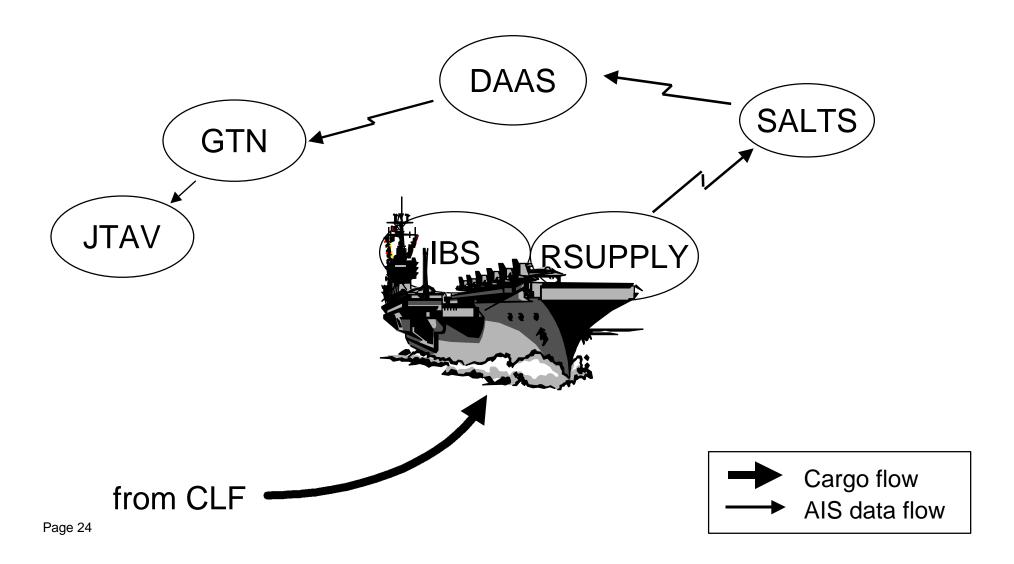


- Read global 2D/OMC to perform transportation in-check
- Read global 2D/OMC to generate
 1800 reports
- Read item/multi-pack 2D/OMC to disposition



Southern Route - CVN Receipt Processing







Southern Route - CVN Receipt Processing



- Read global 2D/OMC to perform transportation in-check
- Read item/multi-pack linear/2D/OMC to receipt
- Read item linear/2D to determine storage location and stow





BPS Fielding Schedule Jun

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7 Dover
8	9	10	11	12	13	14
Norfolk	NAS &	Norfolk	FISC	Norfolk		
Dover		Beumont	Beumont	Beumont		
Brmhvn	Brmhvn	Brmhvn	C2-KIC	C2-KIC		
RMS	RMS	RMS	RMS	RMS	RMS	RMS
15 SigNaplesAviano 123 MSB	16 SigNaplesAviano 47 FSB	17 SigNaplesAviano 501 FSB	18 SigNaplesAviano SPANG	19 SigNaplesAviano SPANG	20 SigNaplesAviano	21 SigNaplesAviano
RMS	RMS	RMS	RMS	RMS		
22	23	24	25	26	27	28
SigNaplesAviano BOSNIA	SigNaplesAviano BOSNIA	SigNaplesAviano BOSNIA	SigNaplesAviano BOSNIA	SigNaplesAviano BOSNIA		

As of 5 May (Peter Langworthy: plangworthy@logicon.com / (757) 253-5700)

BLUE = TEAM 1

GREEN = TEAM 2

 $\overrightarrow{PINK} = \overrightarrow{TEAM} 3$

ORANGE = TEAM 4

PROBLEMS